

Brought Forward			
specifications by a GRS approved contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<u>"Kliplok" or other approved double interlocking concealed fix, 0.58mm galvanised sheet steel and accessories, fixed to timber purlins</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	3 029
<u>Sundries</u>			
2	Ridge capping 550mm girth	m	157
3	Hip ridge capping 550mm girth	m	290
4	Head wall flashing 550mm girth	m	42
5	Side wall flashing 550mm girth	m	42
6	Counter flashing	m	84
<u>ROOF AND WALL INSULATION</u>			
<u>Sisalation 430 aluminium foil wrap insulation</u>			
7	100mm Thick, nominal density 12kg/m ³ , non-combustible roof insulation with reinforced foil facing, fixed under roof sheeting over 75x50mm purlins and galvanized wire at 300mm cc. Overlapping foil edges to be stapled together as per manufacturers recommendations	m2	3 029
<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC.</u>			
<u>0.6mm aluminium sheet</u>			
8	Lining to valleys with riveted and sealed joints, with girth not exceeding 600mm.	m	58

Carried to Summary

Bill No. 6
Roof Coverings, etc.

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Item
No

Unit Quantity Rate Amount

BILL NO. 7

CARPENTRY AND JOINERY

**(CPAP WORK GROUP NO. 126 UNLESS
OTHERWISE STATED)**

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the Architect and/or taken on site before design or fabrication commences

PRE-TREATMENT OF TIMBER

This service falls within the areas defined in the National Building Regulations for treatment of timber against insect infestation / insect pest affecting softwood fixed permanently in all buildings.

The regulations require that the timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderer's are to make allowance in there rates.

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PREFABRICATED ROOF TRUSSES

All timber roof trusses including gang nailed trusses and bolted trusses with lapped members must comply with SABS 0243: The Design, manufacture and erection of timber trusses.

The tenderer is to allow in his rates for an Registered Engineer nominated by the Roof truss supplier to issue the TR1 and TR2 certificate for the design and installation of related works to the Principle Agent.

Prices for the roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required all over hanging ends to be wrot faced all round

PREFABRICATED ROOF TRUSSES, ETC.

The following is applicable in respect of timber roof trusses: Trusses are to be designed, manufactured and delivered to site. Ceilings are plaster board or fibre cement sheeting on softwood brandering.

- 1 Irregular - shaped hip roof construction to roof size length 34250 x width 29320mm / width 28080mm overall on plan (area on plan 828m2) over Admin Block, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.

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2	Irregular - shaped hip roof construction to roof size length 34890 x width 11400mm / width 6320mm overall on plan (area on plan 250m2) over Cell Block - Admittance and Secure Passageway, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
3	Irregular - shaped hip roof construction to roof size length 25000 x width 18730mm / width 10530mm overall on plan (area on plan 414m2) over Lecture Room; Safe and Lockers, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
4	Irregular - shaped hip roof construction to roof size length 9000 x width 9780mm / width 4680mm overall on plan (area on plan 67m2) over Vispol Support, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
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5	L - shaped hip roof construction to roof size approximately 8856 x 3075mm on plan with 2400 x 3170mm protrusion (area on plan 35m2) over CSC - Covered Entrance, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
6	Rectangular - shaped mono pitch roof construction to roof size approximately 10350 x 5950mm on plan (area on plan 61m2) over Washbay, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
7	Rectangular - shaped mono pitch roof construction to roof size approximately 6290 x 1703mm on plan (area on plan 11m2) over Staff Rest, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
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8	Rectangular - shaped hip roof construction to roof size approximately 8563 x 31400mm on plan (area on plan 268.89m ²) over Male Cells, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
9	Rectangular - shaped hip roof construction to roof size approximately 7208 x 13062mm on plan (area on plan 91.81m ²) over Female and Juvenile Cells, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	
10	Rectangular - shaped hip roof construction to roof size approximately 6890 x 11890mm on plan (area on plan 82.03m ²) over Secure Off Loading Area, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.	No	1	

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- 11 Rectangular - shaped hip roof construction to roof size approximately 13338 x 12324mm on plan (area on plan 164m²) over CSC - Counter and Statement Area, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.
- 12 Rectangular - shaped mono pitch roof construction to roof size approximately 6175 x 6875mm on plan (area on plan 42.46m²) over CSC - Male and Female Ablutions, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.
- 13 Rectangular - shaped mono pitch roof construction to roof size approximately 4797 x 3045mm on plan (area on plan 14.61m²) over CSC - Treatment Room, all to accommodate roof sheets, including 114 x 38mm S.A. pine wall plates, 152 x 38mm S.A. pine trusses at approximately 760mm centres, rafters, timber beams, permanent bracing and 38 x 38mm S.A. pine purlins at approximately 320mm centres for roof covering with all purlins fixed to rafters with approved hurricane clips and trusses fixed to wall plates with approved roof ties with rafter end overhang and all exposed timbers at eaves are to be wrot (measured approximate area on plan). Tenderers are referred to Architects drawing number: UKU - A - 1002 - SP2, annexed to these bills of quantities.

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EAVES, VERGES ETC

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<u>Medium density pressed fibre-cement</u>			
14	15 x 255mm Fascias, including galvanised steel H-profile joiners	m 602	
15	80 x 275mm Angle section barge board, including galvanised steel H-profile joiners, etc.	m 32	
<u>FIRE DOORS</u>			
<u>2hr Rated fire door hung to steel frames including hinges, locks, etc.</u>			
16	Class B single door 910 x 2060mm high meranti double sided including two fielded panel with heavy bolecion moulds solid door, hung to steel frames. Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D01A.	No 12	
17	Class B single door 910 x 2060mm high meranti double sided including two fielded panel with heavy bolecion moulds solid door, hung to steel frames. Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D02A.	No 4	
<u>DOORS, ETC</u>			
<u>Semi solid Supawood double sided two panel door</u>			
18	44mm Single door size 910 x 2094mm high hung to steel frames (Steel Frames elsewhere measured). Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D01.	No 88	
19	44mm Double door size 1010 x 2060mm high hung to steel frames (Steel Frames elsewhere measured). Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D02.	No 14	
20	44mm Double door size 880 x 2060mm high hung to steel frames (Steel Frames elsewhere measured). Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D03.	No 6	
<u>Carried Forward</u>			R
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| 21 | 44mm Double door size 1510 x 2003mm high hung to steel frames (Steel Frames elsewhere measured). Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D05. |
| 22 | 44mm Double door size 880 x 2060mm high hung to steel frames (Steel Frames elsewhere measured). Tenderers are referred to Architects drawing number UKU - A - 1003 - SP9, annexured to these Bills of Quantities for the full description. Door Type D10. |

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CUPBOARDS

Kitchen fittings shall be constructed of 16mm V313 melamine faced chipboard bottoms, sides, divisions and shelves, waterproof plinths and spray painted backs.

Doors shall be hung on stainless steel concealed self-closing hinges and shall be fitted with magnetic catches and anodised aluminium bow handles.

Drawers to be hung to epoxy coated mild steel runners and guiders.

Prices shall include for the assembling and fixing complete in position, including all necessary cleats, cover fillets, drilling, screwing and nailing, etc and painting of exposed fillets to match.

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Prefabricated factory finished kitchen cupboards

- 23 Floor mounted L-shaped kitchen sink cupboard to First Floor Kitchen, overall size 3905 x 600 x 870mm high and 750 x 600 x 870mm high, with five (5) doors, six (6) drawers, comprising of 18mm thick Melamine faced moisture resistant particle board cabinets in colour 'shale oak' or similar approved with high compact pressure laminate doors with individual numbers and ironmongery as indicated on the design drawings. Carcass and shelving to be interior grade moisture resistant particleboard. Backing to be hardboard fixed to back of unit with screws and glue. Edge strips to match board finish. 30mm Quartz D90Cm X H2Cm Vanilla Black work top with bull nose including opening in counter top for sinks (sinks elsewhere measured) manufactured in accordance with Architects drawings. (D 12 x H 35mm) 12mm Solid Steel Bar Handles in a black nickel finish, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 2, annexured to these Bills of Quantities for the full description.
- 24 Floor mounted L-shaped kitchen sink cupboard to Lecture Hall Kitchen, overall size 2656 x 600 x 870mm high and 1370 x 600 x 870mm high, with four (4) doors, three (3) drawers, comprising of 18mm thick Melamine faced moisture resistant particle board cabinets in colour 'shale oak' or similar approved with high compact pressure laminate doors with individual numbers and ironmongery as indicated on the design drawings. Carcass and shelving to be interior grade moisture resistant particleboard. Backing to be hardboard fixed to back of unit with screws and glue. Edge strips to match board finish. 30mm Quartz D90Cm X H2Cm Vanilla Black work top with bull nose including opening in counter top for sinks (sinks elsewhere measured) manufactured in accordance with Architects drawings. (D 12 x H 35mm) 12mm Solid Steel Bar Handles in a black nickel finish, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 3, annexured to these Bills of Quantities for the full description.

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25	<p>Floor mounted L-shaped kitchen sink cupboard to Admin Block Kitchen, overall size 3750 x 600 x 870mm high and 980 x 600 x 870mm high, with five (5) doors, three (3) drawers, comprising of 18mm thick Melamine faced moisture resistant particle board cabinets in colour 'shale oak' or similar approved with high compact pressure laminate doors with individual numbers and ironmongery as indicated on the design drawings. Carcass and shelving to be interior grade moisture resistant particleboard. Backing to be hardboard fixed to back of unit with screws and glue. Edge strips to match board finish. 30mm Quartz D90Cm X H2Cm Vanilla Black work top with bull nose including opening in counter top for sinks (sinks elsewhere measured) manufactured in accordance with Architects drawings. (D 12 x H 35mm) 12mm Solid Steel Bar Handles in a black nickel finish, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 3, annexured to these Bills of Quantities for the full description.</p>	No	1	
26	<p>Floor mounted L-shaped kitchen sink cupboard to CSC Kitchen, overall size 1970 x 600 x 870mm high and 1335 x 600 x 870mm high, with two (2) doors, three (3) drawers, comprising of 18mm thick Melamine faced moisture resistant particle board cabinets in colour 'shale oak' or similar approved with high compact pressure laminate doors with individual numbers and ironmongery as indicated on the design drawings. Carcass and shelving to be interior grade moisture resistant particleboard. Backing to be hardboard fixed to back of unit with screws and glue. Edge strips to match board finish. 30mm Quartz D90Cm X H2Cm Vanilla Black work top with bull nose including opening in counter top for sinks (sinks elsewhere measured) manufactured in accordance with Architects drawings. (D 12 x H 35mm) 12mm Solid Steel Bar Handles in a black nickel finish, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 6, annexured to these Bills of Quantities for the full description.</p>	No	1	
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27	<p>Floor mounted kitchen sink cupboard to Staff Room, overall size 1250 x 600 x 870mm high, with two (2) doors, comprising of 18mm thick Melamine faced moisture resistant particle board cabinets in colour 'shale oak' or similar approved with high compact pressure laminate doors with individual numbers and ironmongery as indicated on the design drawings. Carcass and shelving to be interior grade moisture resistant particleboard. Backing to be hardboard fixed to back of unit with screws and glue. Edge strips to match board finish. 30mm Quartz D90Cm X H2Cm Vanilla Black work top with bull nose including opening in counter top for sinks (sinks elsewhere measured) manufactured in accordance with Architects drawings. (D 12 x H 35mm) 12mm Solid Steel Bar Handles in a black nickel finish, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 5, annexured to these Bills of Quantities for the full description.</p> <p><u>Wall Mounted Cupboards</u></p>	No	1		
28	<p>Wall mounted cupboard to Admin First Floor Kitchen overall size 2980 x 450 x 558mm high with six (6) doors comprising of Folkstone Grey Gloss Melawood by PG Bison O.O.E.A or similar approved finish with high impact edging, consisting of melamine impregnated decorative paper, fused under heat and pressure to both sides of a chip board substrate, manufactured in accordance with Architects drawings, Room Data Sheet 02. (D 12 x H 35mm) 12mm Solid Steel bar handles in black nickel finish, Ferrari FGV screw fixing type hinge to doors, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 2, annexured to these Bills of Quantities for the full description.</p>	No	1		
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29	Wall mounted cupboard to Lecture Hall Kitchen overall size 1020 x 450 x 558mm high with two (2) doors comprising of Folkstone Grey Gloss Melawood by PG Bison O.O.E.A or similar approved finish with high impact edging, consisting of melamine impregnated decorative paper, fused under heat and pressure to both sides of a chip board substrate, manufactured in accordance with Architects drawings, Room Data Sheet 03. (D 12 x H 35mm) 12mm Solid Steel bar handles in black nickel finish, Ferrari FGV screw fixing type hinge to doors, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 3, annexured to these Bills of Quantities for the full description.	No	1	
30	Wall mounted cupboard to Admin Block Kitchen overall size 1510 x 450 x 558mm high with three (3) doors comprising of Folkstone Grey Gloss Melawood by PG Bison O.O.E.A or similar approved finish with high impact edging, consisting of melamine impregnated decorative paper, fused under heat and pressure to both sides of a chip board substrate, manufactured in accordance with Architects drawings, Room Data Sheet 03. (D 12 x H 35mm) 12mm Solid Steel bar handles in black nickel finish, Ferrari FGV screw fixing type hinge to doors, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 3, annexured to these Bills of Quantities for the full description.	No	1	
31	Wall mounted cupboard to CSC Kitchen overall size 1346 x 450 x 558mm high with two (2) doors comprising of Folkstone Grey Gloss Melawood by PG Bison O.O.E.A or similar approved finish with high impact edging, consisting of melamine impregnated decorative paper, fused under heat and pressure to both sides of a chip board substrate, manufactured in accordance with Architects drawings, Room Data Sheet 06. (D 12 x H 35mm) 12mm Solid Steel bar handles in black nickel finish, Ferrari FGV screw fixing type hinge to doors, all screws and brackets to be included. Tenderers are referred to Architects drawing number UKU - A - 5000 - 6, annexured to these Bills of Quantities for the full description.	No	1	
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**Samora Machel New Police Station
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<u>Worktops</u>				
32	30mm Rustenburg granite L-shaped work top with bull nose to Radio Room, overall size 3505 x 600mm and 1965 x 600mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
33	30mm Rustenburg granite L-shaped work top with bull nose to Cas Terminal, overall size 2907 x 600mm and 1959 x 600mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
34	30mm Rustenburg granite work top with bull nose to Sensitive Statements, overall size 1800 x 600mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	2	
35	30mm Rustenburg granite work top with bull nose to CSC - Front/Back Counter, overall size 1149 x 555mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
36	30mm Rustenburg granite work top with bull nose to CSC - Front/Back Counter, overall size 1149 x 555mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
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37	30mm Rustenburg granite work top with bull nose to CSC - Front/Back Counter, overall size 3246 x 600mm; 1004 x 600mm and 1838 x 600mm with openings in work top for 1 No. x 380mm diameter prep bowl. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
38	30mm Rustenburg granite work top with bull nose to Cell Block - Admittance, overall size 3046 x 600mm; 599 x 600mm and 249 x 600mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
39	30mm Rustenburg granite work top with bull nose to Cell Block - Admittance, overall size 2548 x 450mm. Work top to be fixed on to wall bracket as per supplier recommendation. Supplier to provide shop drawings for approval. Tenderers are referred to Architects drawing number UKU - A - 3000 - SP21 annexured to these Bills of Quantities for the full description.	No	1	
<u>Wash Hand Basin Counter tops</u>				
40	30mm Thick Rustenberg granite top to Admin Ablutions - Female comprising of, 910 x 600mm x 2 No. sides, 3050 x 125mm front edge and 3050 x 600mm counter top with openings in counter top for 4 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 02. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 2 annexured to these Bills of Quantities for the full description.	No	1	
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Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
41	30mm Thick Rustenberg granite top to Admin Ablutions - Male comprising of, 910 x 600mm x 2 No. sides, 2353 x 125mm front edge and 2353 x 600mm counter top with openings in counter top for 3 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 02. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 2 annexured to these Bills of Quantities for the full description.	No	1	
42	30mm Thick Rustenberg granite top to CSC Public Ablutions - Male comprising of, 910 x 600mm x 2 No. sides, 1610 x 125mm front edge and 1610 x 600mm counter top with openings in counter top for 2 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 01. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 1 annexured to these Bills of Quantities for the full description.	No	1	
43	30mm Thick Rustenberg granite top to CSC Public Ablutions - Female comprising of, 910 x 600mm x 2 No. sides, 1833 x 125mm front edge and 1833 x 600mm counter top with openings in counter top for 2 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 01. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 1 annexured to these Bills of Quantities for the full description.	No	1	
Carried Forward				R
Bill No. 7 Carpentry and Joinery <div align="center" style="font-size: 2em; font-weight: bold;">166</div>				

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
44	30mm Thick Rustenberg granite top to CSC Staff Ablutions - Male comprising of, 910 x 600mm x 2 No. sides, 1240 x 125mm front edge and 1240 x 600mm counter top with openings in counter top for 2 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 01. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 1 annexured to these Bills of Quantities for the full description.	No	1	
45	30mm Thick Rustenberg granite top to CSC Staff Ablutions - Female comprising of, 910 x 600mm x 2 No. sides, 1810 x 125mm front edge and 1810 x 600mm counter top with openings in counter top for 2 No. x wash hand basins, (wash hand basins elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 01. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 1 annexured to these Bills of Quantities for the full description.	No	1	
46	30mm Thick Rustenberg granite top to CSC Ablutions comprising of, 910 x 600mm x 2 No. sides, 500 x 125mm front edge and 500 x 400mm counter top with openings in counter top for 1 No. x wash hand basin, (wash hand basin elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 04. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 4 annexured to these Bills of Quantities for the full description.	No	4	
Carried Forward				R
Bill No. 7 Carpentry and Joinery				

167

SS
M.B

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
47	30mm Thick Rustenberg granite top to Cell Block - SAPS WC comprising of, 910 x 600mm x 2 No. sides, 500 x 125mm front edge and 500 x 400mm counter top with openings in counter top for 1 No. x wash hand basin, (wash hand basin elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 04. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 4 annexured to these Bills of Quantities for the full description.	No	1	
48	30mm Thick Rustenberg granite top to VFF Ablutions comprising of, 910 x 600mm x 2 No. sides, 500 x 125mm front edge and 500 x 400mm counter top with openings in counter top for 1 No. x wash hand basin, (wash hand basin elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 05. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 5 annexured to these Bills of Quantities for the full description.	No	1	
49	30mm Thick Rustenberg granite top to Staff Room RDS comprising of, 910 x 600mm x 2 No. sides, 500 x 125mm front edge and 500 x 400mm counter top with openings in counter top for 1 No. x wash hand basin, (wash hand basin elsewhere measured) manufactured in accordance with Architects drawings, Room Data Sheet 05. Front edge on 50 x 50mm galvanised steel brackets bolted to wall (unit). 40 x 40 x 4mm Galvanised steel angle iron welded together to support frame. Fix steel frame to wall with 8mm x 70mm masonry anchors as indicated. Tenderers are referred to Architects drawing number UKU - A - 5000 - 5 annexured to these Bills of Quantities for the full description.	No	1	
<u>THE FOLLOWING IN SHELVING TO STORES</u>				
Carried Forward				R
Bill No. 7 Carpentry and Joinery				

168

79-

W.B. SS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward

Meranti or Superwood fixed to metal brackets (Metal brackets elsewhere measured)

50 22mm thick x 450mm long, Meranti or Superwood top finished and varnished with two polyurethane varnish fixed to bracket with six, 30mm self-tapping countersunk wood screws.

m 4

51 22mm thick x 600mm long, Meranti or Superwood top finished and varnished with two polyurethane varnish fixed to bracket with six, 30mm self-tapping countersunk wood screws.

m 535

52 22mm thick x 720mm long, Meranti or Superwood top finished and varnished with two polyurethane varnish fixed to bracket with six, 30mm self-tapping countersunk wood screws.

m 16

53 50 x 25mm Timber strip behind shelving at 1000mm centres.

m 292

Sundries

54 100mm high Aluminium skirting fixed base of floor cupboards.

m 19

Carried to Summary

Bill No. 7
Carpentry and Joinery

169

R

R

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Item
No

Unit	Quantity	Rate	Amount
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BILL NO. 8

**CEILINGS, PARTITIONS AND ACCESS
FLOORING**

**(CPAP WORK GROUP NO. 129 UNLESS
OTHERWISE STATED)**

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Openings in ceilings for light fittings, etc. are to include for additional suspension as required

Ceilings

Unless otherwise described ceilings shall be deemed to be horizontal

Fixings

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere

SUSPENDED CEILINGS

Carried Forward

R

Bill No. 8
Ceilings, Partitions and Access Flooring

170



M.B. CS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward			R
<u>"Gyproc Saint-Gobain" or other equally approved suspended acoustic ceiling boards to 'Isover soundlite coral', in 40mm thick, 595 x 1195mm panels fixed with hold down clips to an open suspended T-grid system or other equally approved to donn according to manufacturers specifications. 100mm thick thermal blanket by specialist all SANS10400XA minimum requirements.</u>			
1	Ceilings suspended not exceeding 1m below timber roof trusses	m2	1 564
2	Extra over ceiling for opening for 200mm diameter Light Fittings (provisional)	No	95
3	Extra over ceiling for opening for 600 x 600mm Light Fittings (provisional)	No	78
4	Extra over ceiling for opening for 1200 x 600mm Light Fittings (provisional)	No	233
5	Extra over ceiling for opening for 600 x 600mm air-conditioning diffusers (provisional)	No	115
<u>NAILED-UP CEILINGS</u>			
<u>6mm Fibre-cement boards with white H-type PVC jointing strips</u>			
6	Ceilings including 38 x 38mm sawn softwood branderer at 400mm centres	m2	138
7	Extra over ceiling for opening for 200mm diameter light fittings (provisional)	No	14
8	Extra over ceiling for 600 x 600mm trap door	No	1
<u>CORNICES</u>			
<u>Shadowline cornices</u>			
9	50 x 50mm Shadow line cornices	m	2 167
<u>THERMAL/ INSULATED</u>			

Carried Forward

R

Bill No. 8
Ceilings, Partitions and Access Flooring

171

Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)

Brought Forward

"Isover" or other equally approved 100mm thick x 1200mm wide Aerolite non-combustible flexible lightweight industrial fibreglass roof insulation, nominal density 12kg/m³, fixed between trusses over bracing. Fixed all in accordance with manufacturer's instructions

10 Insulation laid in between trusses over brandering

m2

1 702

R

Carried to Summary

Bill No. 8
Ceilings, Partitions and Access Flooring

R

172

-83-

55

FLOOR COVERINGS, WALL LININGS, ETC

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

Screed deviations are not to exceed 5mm over 3000mm

Thoroughly clean down with SANS 10183:1-4 compliant diluted natural detergent and thoroughly rinse, allow to dry and apply 3 coats water based floor dressing compliant with SABS 1042.

Remove all contaminants, clean down and apply TAL screedmaster, prime with TAL Floor Primer using pump method all by TAL contractor in accordance with the manufacturer's instructions

Prepare surface and prime area with "Flowcrete Flowprime" @ 4m/l other equally approved

- | | | | |
|---|--|----|----|
| 1 | On floors | m2 | 74 |
| | <p><u>Apply 0.5mm (2 coats) "Flowcoat SF41" or other equally approved, once cured, all movement joints must be re cut to original geometry and filled with "Flowflex HM" or other equally approved flexible joint sealant.</u></p> | | |
| 2 | On floors | m2 | 74 |
| 3 | 75mm High skirting | m | 51 |

VINYL FLOOR COVERINGS

Carried Forward

Bill No. 9
Floor Coverings

173

-84-

MB 55

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward

R

Supply and fix 2.0mm thick homogenous vinyl composite quartz tile A 400mm exterior boarder in colour Mining with a Interior colour of Table Mountain

4	On floors	m2	174
5	75mm High skirting	m	176

POLISH, SEALERS, ETC

Polish, Sealers, etc.

6	Two coats wax polish on vinyl flooring	m2	174
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Carried to Summary

R

Bill No. 9
Floor Coverings

174

SS
MB

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Item
No

Unit Quantity Rate Amount

BILL NO. 10

IRONMONGERY

**(CPAP WORK GROUP NO. 132 UNLESS
OTHERWISE STATED)**

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Proprietary items

Where applicable the manufacturers names or product catalogue titles are given in sub-headings preceding the items. Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures, etc. clarifying the features of the products/articles offered. On request returnable samples are to be provided to the principal agent for consideration

The following locks are to be suitable for master key operation

Finishes to ironmongery

Sample of all items to be provided for approval prior to placing final orders. Approved samples to remain in the sample room for the duration of the contract. All fittings to be SABS approved and compliant with SANS

HINGES

1 "Union" or other equally approved SS 2BB Butt hinge
EN1935GRD13 (JH-BB-STD-2-SS)

Pairs 99,0

Carried Forward

R

Bill No. 10
Ironmongery

175

SM

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward			R
2	"Union" or other equally approved SS 2BB Butt hinge EN1935GRD13 (SP-JH-BB-STD-2-SS) Fittings to be read in conjunction with all floor plans. Number of fittings shown to be checked according to the floor plans and any discrepancies to be brought to the attention of the Architects prior to placing orders <u>LOCKS</u>	Pairs	78,0
3	"Union" or other equally approved euro cylinder deadlock - stainless steel (L-2115-78SS)	No	109
4	"Union" or other equally approved gemini Euro profile double cylinder 65mm KD satin nickel PANTED (CY2X18-65SNKD)	No	110
5	"Union" or other equally approved escutcheon on rose profile (SS5004-73SS)	Pairs	21,0
6	"Union" or other equally approved escutcheon on rose profile (SP-SS5305-05SS_)	No	14
7	"Union" or other equally approved escutcheon on rose profile (PZ-05SS)	Pairs	2,0
8	"Union" or other equally approved 2915 Rebate Set - Satin Chrome - For 2115 & 2215 Lock (2915SC)	No	31
9	"Union" or other equally approved swing bolted dead lock - 35mm backseat - Stainless (QD35X85MMSW-SS)	No	2
10	"Assa Abloy" or other equally approved flush Bolt for Metal Doors (AL8208-180AS/MD)	No	2
11	"Union" or other equally approved flushbolt 150mm Box SS (SS8208-150SS)	No	21
12	"Union" or other equally approved flushbolt 300mm Box SS (SS8208-300SS)	No	21
<u>HANDLES</u>			
13	"Union" or other equally approved SS dove lever handle on 152 x 152mm ss backplate profile (SS5D66L-05SS)	No	62
Carried Forward			R
Bill No. 10 Ironmongery			

176

ABSS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward			R
14	"Union" or other equally approved SS dove pull handle on back plate LH profile 152x152mm plate (SS5D66L-05SS)	No	94
15	"Union" or other equally approved SS dove pull handle on back plate LH profile 152x152mm plate (SS5D66L-06SS)	No	5
16	"Union" or other equally approved SS dove pull handle on back plate LH profile 152x152mm plate (SS5D66R-05SS)	No	2
17	"Union" or other equally approved SS Dove Lever Handle on 152 x 152mm SS Backplate blank (SS6166-06SS)	Pairs	1,0
18	"Union" or other equally approved D-HANDLE Straight Dia 19mm 300mm-CF (PH5320-19-300CFSS)	No	4
19	"Union" or other equally approved D-HANDLE Straight Dia 19mm 150mm - BTB (PH5320-19-150BBSS)	No	21
20	"Union" or other equally approved D-HANDLE Straight Dia 25mm 300mm - BTB (PH5321-25-300BBSS)	No	2
21	"Union" or other equally approved J-883T-SIL Double Panic Bolt Push Bar 900mm	No	11
<u>PUSH PLATES AND KICK PLATES</u>			
22	"Union" or other equally approved kick plate 200 x 800mm (SS5089-200W)	No	16
23	"Union" or other equally approved kick plate 300 x 800mm works (SS5089-300W)	No	16
24	"Assa Abloy" or other equally approved straight mounting plate door closer (DCA120-40)	No	89
25	"Union" or other equally approved slide Channel Mounting Plate for DC175 (DCA280-EV1)	No	10
<u>DOOR CLOSERS</u>			
26	"Assa Abloy" or other equally approved R&P closer EN 3-6 SC SIL (DC300)	No	91

Bill No. 10
Ironmongery

Carried Forward

177



11.3 SS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
27	"Assa Abloy" or other equally approved R&P closer EN 3-6 SC SIL (DC3A00)	No	6	
<u>SAPS SIGNAGE</u>				
28	1100 x 1100mm cast aluminium SAPS emblem - backing plate out aluminium sprayed blue, cast aluminium star mounted on top of backing (SN01). Signage to be mounted to wall. Aluminium star mounted on top of backing cast bronze SAPS emblem, same sizes as above, Individual letters, cut out aluminium letters sprayed blue/black/white & applied on pins. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-7, annexed to these bills of quantities.	No	2	
29	1800 x 1200mm National flag, must be displayed according to SO (G) 202. It will be of 100% polyester multi filament webbing, the finished width and thickness is 25mm and 1.5mm. (SN02). Refer to Architects Drawing UKU-A-7001-7, annexed to these bills of quantities.	No	1	
30	1800 x 1200mm Service flag. It will be of 100% polyester multi-filament webbing, the finished width and thickness is 25mm and 1.5mm. (SN03). Refer to Architects Drawing UKU - A - 7001 - 7, annexed to these bills of quantities.	No	1	
31	2450 x 1220mm 'Welcome Samora Machel Police Station' sign to be constructed from 1mm white chromadek sheet. Poles to 50 x 50 x 1.6mm square tube steel poles with a height of 3600mm. Poles to be primer coated and sprayed blue. Poles is to be cast in reinforced concrete 600 x 830mm deep concrete bases, allow for excavations and formwork to bases (SN04). (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-7, annexed to these bills of quantities.	No	1	
32	2450 x 1220mm 'Batho Pele Principles' sign to from 1mm white chromadek sheet. Poles to 50 x 50 x 1.6mm square tube steel poles with a height of 3600mm. Poles to be primer coated and sprayed blue. Poles is to be cast in reinforced concrete 600 x 830mm deep concrete bases, allow for excavations and formwork to bases. (All text to be confirmed by SAPS Architect). (SN05). Refer to Architects Drawing UKU-A-7001-7, annexed to these bills of quantities.	No	1	
Carried Forward				R

Bill No. 10
Ironmongery

178

u.i.b S

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
33	600 x 1600mm Directory Sign. Single sided system; aluminium single sign holder extrusion (clear anodize); clear cover with silicone seal (glossy/non-glare); metal (aluminium) end caps (clear anodize); or similar approved. Lettering to be done in white. Background to be painted blue. Poles is to be cast in reinforced concrete 600 x 830mm deep concrete bases, allow for excavations and formwork to bases (SN06 & SN07). (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-7, annexed to these bills of quantities.	No	1	
34	800 x 600mm cast aluminium SAPS emblem - backing plate out aluminium sprayed blue, cast aluminium star mounted on top of backing (SN08). Signage to be mounted to wall. Aluminium star mounted on top of backing cast bronze SAPS emblem, same sizes as above. Individual letters, cut our aluminium letters sprayed blue/black/white & applied on pins. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
35	800 x 600mm cast aluminium SAPS emblem - backing plate out aluminium sprayed blue, cast aluminium star mounted on top of backing (SN09). Signage to be wall mounted. Aluminium star mounted on top of backing cast bronze SAPS emblem, same sizes as above. Individual letters, cut our aluminium letters sprayed blue/black/white & applied on pins. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
36	800 x 600mm cast aluminium SAPS emblem - backing plate out aluminium sprayed blue, cast aluminium star mounted on top of backing (SN10). Signage to be wall mounted. Aluminium star mounted on top of backing cast bronze SAPS emblem, same sizes as above. Individual letters, cut our aluminium letters sprayed blue/black/white & applied on pins. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
Carried Forward				R
Bill No. 10 Ironmongery				

179

w/B SS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
37	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN12). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
38	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN13). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
39	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN14). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	2	
40	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN15). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	19	
Carried Forward				R
Bill No. 10 Ironmongery				

180

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
41	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN16). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	14	
42	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN17). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	2	
43	300 x 150mm wall mounted sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in black. Background to be painted blue (SN18). Signage to be mounted by specialist, shop drawings are to be presented to Architect for approval. (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-8, annexed to these bills of quantities.	No	1	
44	200 x 200mm 'Toilets' Sign. Double sided system; aluminium single sign holder extrusion (clear anodize); clear cover (glossy/non-glare); plastic (abs) end caps (grey); black steel base; or similar approved. Lettering to be done in white. Background to be painted blue (SN20). (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-9, annexed to these bills of quantities.	No	5	
45	Blue Light with wording 'Police' on it. Writing must be in white. It can be wall-mounted or on a 3m pole. (SN21). (All text to be confirmed by SAPS Architect). Refer to Architects Drawing UKU-A-7001-9, annexed to these bills of quantities.	No	1	
Carried Forward				R
Bill No. 10 Ironmongery				

181

113 S

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
46	594 x 842mm (A1) Snap frames with silver aluminium frame. (SN22). Refer to Architects Drawing UKU-A-7001-9, annexed to these bills of quantities.	No	6	
47	Double sided wall mounted standing aluminium sign frame suggestion box with plastic feet. Size to be 215mm wide and 297mm high with 2 interchangeable sign frames on either side. To be supplied fully assembled with all parts and accessories including locks and keys, non-reflective polycarbonate inserts to be supplied cut to size for the A4 frames. The products green certification and SABS testing to be supplied. (SN25). Refer to Architects Drawing UKU-A-7001-9, annexed to these bills of quantities.	No	1	
48	360 x 450mm Frames for official photographs sizes 210mm x 297mm, including 25mm silver frame, 50mm royal blue board and 20mm x 70mm silver engraved nameplate (SN23). Refer to Architects Drawing UKU-A-1008-03, annexed to these bills of quantities.	No	10	
<u>GENERAL SIGNAGE</u>				
49	"Union" or other equally approved tea/Kitchen sign 152 x 152 x 1.2mm SS	No	3	
50	"Union" or other equally approved female sign 152 x 152 x 1.2mm SS	No	6	
51	"Union" or other equally approved male sign 152 x 152 x 1.2 SS	No	6	
52	"Union" or other equally approved paraplegic sign 152 x 152 x 1.2 SS	No	4	
53	"Union" or other equally approved electrical Shock sign (SP5066-06SSE01)	No	4	
54	"Union" or other equally approved paraplegic Facility Indicator Bolt AS (37651AS)	No	4	
<u>STATUTORY SIGNAGE</u>				
<u>Supply, delivery & installation to be in accordance with SANS 1186 & SANS 10400. The following signage reference codes are applicable in reference to the fire signage drawings.</u>				
Carried Forward				R
Bill No. 10 Ironmongery				

182

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward			R	
<u>Statutory signage to be SABS approved and photo luminescent, external signage to be UV rated</u>				
<u>Green and white single sided signage screwed fixed on to walls as per manufacturer's details</u>				
55	380 x 190mm Exit signage. Type E6	No	11	
56	Combination of 2 No. of 190 x 190mm signage. Signage include arrow (left arrow) and running man. Type E2	No	7	
57	Combination of 2 No. of 190 x 190mm signage. Signage include arrow (Right arrow) and running man. Type E1	No	8	
58	Combination of 3 No. of 190 x 190mm signage. Signage include arrow (Right arrow), running man and staircases. Type E16	No	2	
59	Combination of 3 No. of 190 x 190mm signage. Signage include arrow (left arrow), running man and staircases. Type E17	No	2	
60	Combination of 2 No. of 190 x 190mm signage. Signage include arrow (down arrow) and running man. Type E3	No	14	
<u>Statutory signage to be SABS approved and photo luminescent, external signage to be UV rated</u>				
<u>Red and white single sided signage screwed fixed on to walls as per manufacturer's details</u>				
61	190 x 190mm booster connection signage. Type F49	No	1	
62	380 x 190mm Exit stairway signage. Type F39	No	2	
63	Combination of 3 No. of 190 x 190mm Signage. Signage include arrow (down arrow), fire extinguisher and fire hose reel. Type F4	No	10	
64	Combination of 4 No. of 190 x 190mm signage. Signage include arrow (Down arrow), fire hose reel, fire extinguisher and fire hydrant. Type F1	No	1	
65	Combination of 2 No. of 190 x 190mm signage. Signage include arrow (down arrow) and fire extinguisher. Type F13	No	1	
Carried Forward			R	

Bill No. 10
Ironmongery

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W.B.S

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward					
66	Combination of 2 No. of 190 x 190mm signage. Signage include arrow (down arrow) and fire hydrant. Type F15	No	5		
<u>SUNDRIES</u>					
67	Analogue clock with SAPS badge branded on black background. (SN24). Refer to Architects Drawing UKU-A-7001-9, annexed to these bills of quantities.	No	1		
68	"Dormakaba" or other equally approved Titan 4 - four arms, full height, bi-directional single turnstile. , complete with biometric/fingerprint reader mounting bracket and set of two batteries - 12V 7aH with connection leads. Single turnstile and biometric reader to be 304 grade brushed stainless steel - Fail secure.	No	1		
69	"Union" or other equally approved door Stop (AL8730AS)	No	82		
70	"Union" or other equally approved dust Proof Strike (8852SS)	No	33		
71	"Union" or other equally approved 82mm Wall projection door stop (99022SS)	No	43		
72	"Union" or other equally approved bathroom Deadbolt - Stainless Steel (SS2016SS)	No	21		
<u>"BATHROOM FITTINGS"</u>					
73	"Sunridge" or other equally approved grade 304 stainless steel satin finish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished. The dispenser have a satin stainless steel touch colour. Dimensions: 140 x 130 x 260mm (CODE: SR-DISP-SOAP)	No	11		
74	"Sunridge" or other equally approved wall mounted toilet roll holder with a spindle rod inside, vandal resistant white satin finish surface. 3 toilet rolls to fill. it has a lockable padlock dimension: 410 x 160 x 160mm (CODE: SR-3ROLL-LOCK-S)	No	12		
75	"Sunridge" or other equally approved wall mounted toilet roll holder with a spindle rod inside, vandal resistant white satin finish surface. 2 toilet rolls to fill with a lockable padlock dimension: 410 x 130 x 128mm (CODE: SR-2ROLL-DISP)	No	17		

Carried Forward

Bill No. 10
Ironmongery

184

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward			
76	"Sunridge" or other equally approved grade 304 stainless steel with a satin finish.manual hands free paper towel dispenser with a reflex and lever. Dimensions: 190 x 300 x 340mm (CODE: SR-DI SP-MAN)	No	12
77	"Sunridge" other equally approved grade 304 stainless steel waste bin 27 litre, 1,2mm thick with a satin finish with a capacity of 300 x 520 high. Unit to be mounted to the wall and plastic bag can be replaced when full. Open top waste bin. Dimensions: 500 x 300 x 170mm (CODE: SR-WALL-BIN)	No	17
<u>PARAPLEGIC FITTINGS</u>			
78	"Sunridge" or other equally approved grab rails, grade 304 stainless and supplied with expansion bolt to securely fix the rail to the wall.This unit has a clearance of 245mm from the inside of the cistern rail to the wall to be installed 800mm from floor. Dimension: 800mm x 245mm CODE: CGR800-GRAB RAIL (straight)	No	1
79	"Sunridge" or other equally approved grab rail, grade 304 stainless steel and supplied with expansion bolts to securely fix the rail to the wall. This unit can be used for Paraplegic 2 legged grab rail have two support ends. Dimensions: 300 x 300 x 300mm CODE:2L GR - GRAB RAIL (chamfered)	No	3

R

Carried to Summary

R

Bill No. 10
Ironmongery

185

55
11 B

Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)

Item
No

Unit Quantity Rate Amount

BILL NO. 11

METALWORK

(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)

PREAMBLES

The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "General Preambles for Trades 2017" as published by the Association of South African Quantity Surveyors", and Supplementary Preambles for further description and amplification of work in this section

SUPPLEMENTARY PREAMBLES

Descriptions of bolts, anchors, etc.

Descriptions of bolts shall be deemed to include nuts and washers.

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.

Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described.

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres.

Aluminium doors, windows, etc.

Doors and windows shall comply with AAAMSA design criteria.

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.

The Contractor is advised that the design, supply and installation of the aluminium windows, doors and shopfronts are to be carried out in strict accordance with the Architect's specification and all aluminium profiles, manufacturing and fixing methods are to comply with

Carried Forward

R

Bill No. 11
Metalwork

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Brought Forward

AAMSA specifications and installation standards.

The Contractor to provide shop drawings for approval by the Architect. The Contractor shall submit shop drawings for approval by the Architect within two weeks of appointment. The Contractor shall only proceed with the works after written approval has been given by the Architect.

The Contractor is to allow for and calculate tolerances for expansion and contraction of all aluminium profiles.

The contractor is to provide a waterproofing guarantee for all shopfront and windows.

The Contractor is to confirm all window and shopfront sizes with the Architect.

The following certificates shall be provided prior to commencement of work on site:

1. A copy of the relevant AAAMSA performance test certificate from the manufacturer/contractor supplying the architectural aluminium product.
2. A certificate of conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively.
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process.
4. A certificate of conformance confirming that glazing has been installed in accordance with SANS 10137 ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked.
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against de-lamination and colour degradation for a period of not less than five years.

Carried Forward

Bill No. 11
Metalwork

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R

R

187

Brought Forward

R

Ironmongery

All ironmongery to aluminium windows, doors, shopfronts, roller shutter doors, etc. is to be high quality adjustable stainless steel friction hinges with restrictors included with self tapper stainless steel screw fixing of plastic handle and lock piece supplied and fixed by the contractor. The Contractor is to provide for approval by the Architect samples of these ironmongery. All ironmongery shall be by the Architect prior to installation.

The Contractor to supply all relevant shopfronts with catches, handles, hinges, etc. to match shopfronts and doors, all to the Architects approval and as per Architect's drawing & schedules.

Sliding gear

All sliding gear to sliding doors and windows to be supplied by the contractor unless otherwise specified. The contractor to provide samples for approval by the Architect of these sliding gear. All sliding gear shall be by the Architect prior to installation.

Joints and sealants

All joints in frames shall be made by mechanical means.

An silicone sealant is to be provided for both sides of all internal and external shop fronts between the aluminium frames and brick wall or concrete column and between the aluminium frame and plaster finish.

GALVANISED STEEL GATES, SCREENS, ETC.

Hot dipped galvanised steel gates, etc.

- 1 880 x 2094mm High, single steel gate including 50 x 50 x 2mm square tubing frame with flatex 345 mesh welded between 12 x 12mm solid square bars, and 2mm thick steel plate welded between 12 x 12mm solid square bars, all in accordance with SANS Specification 121 (SABS ISO 1461) including hinges formed out of 19 x 2mm thick mild steel piping. Gate type G01. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP10, annexed to these bills of quantities.

No

8

Carried Forward

R

Bill No. 11
Metalwork

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1. B / S

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
2	948 x 1970mm High, single steel gate including frame which is manufactured from steel angles and 2mm thick steel sheet shaped into sizes, all in accordance with SANS Specification 121 (SABS ISO 1461). Gate type G03. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP10, annexed to these bills of quantities.	No	22	
3	1030 x 2060mm High, single steel gate including frame which is manufactured from steel angles and 2mm thick steel sheet shaped into sizes, all in accordance with SANS Specification 121 (SABS ISO 1461). Gate type G02. Tenderer's are referred to Architect's drawing No. 132002 UKU - A - 1003 - SP10, annexed to these bills of quantities.	No	4	
<u>Hot dipped galvanised steel screens, etc.</u>				
4	Screenex Galvanised or Betafence 358 Doubleskin Zincalu steel mesh or other equally approved laid into 50 x 50 x 5mm angle iron frames, screen mesh to be laid in panels approximate size 1545 x 29760mm long. Mesh welded into frame and sandwiched between frame of 40 x 40 x 3mm angle welded to mesh and main frame. Frames exceeding 1800mm in length to have an additional 40 x 40 x 3mm angle T-support placed and welded centrally onto the mesh, welding spots to be finished with cold galvanising on site. Frames to be bolted to walls with M6 expansion bolts at 200mm centres. Tenderer's are referred to Engineer's drawing No. STR-005 Rev B, annexed to these bills of quantities.	No	1	
5	Screenex Galvanised or Betafence 358 Doubleskin Zincalu steel mesh or other equally approved laid into 50 x 50 x 5mm angle iron frames, screen mesh to be laid in panels approximate size 3500 x 29760mm long. Mesh welded into frame and sandwiched between frame of 40 x 40 x 3mm angle welded to mesh and main frame. Frames exceeding 1800mm in length to have an additional 40 x 40 x 3mm angle T-support placed and welded centrally onto the mesh, welding spots to be finished with cold galvanising on site. Frames to be bolted to walls with M6 expansion bolts at 200mm centres. Tenderer's are referred to Engineer's drawing No. STR-005 Rev B, annexed to these bills of quantities.	No	1	
Carried Forward				R

Bill No. 11
Metalwork

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M.B SS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
6	1Screenex Galvanised or Betafence 358 Doubleskin Zincalu steel mesh or other equally approved laid into 50 x 50 x 5mm angle iron frames, screen mesh to be laid in panels approximate size 3500 x 11170mm long. Mesh welded into frame and sandwiched between frame of 40 x 40 x 3mm angle welded to mesh and main frame. Frames exceeding 1800mm in length to have an additional 40 x 40 x 3mm angle T-support placed and welded centrally onto the mesh, welding spots to be finished with cold galvanising on site. Frames to be bolted to walls with M6 expansion bolts at 200mm centres. Tenderer's are referred to Engineer's drawing No. STR-005 Rev B, annexed to these bills of quantities.	No	1	
7	Screenex Galvanised or Betafence 358 Doubleskin Zincalu steel mesh or other equally approved laid into 50 x 50 x 5mm angle iron frames, screen mesh to be laid in panels approximate size 1500 x 11422mm long. Mesh welded into frame and sandwiched between frame of 40 x 40 x 3mm angle welded to mesh and main frame. Frames exceeding 1800mm in length to have an additional 40 x 40 x 3mm angle T-support placed and welded centrally onto the mesh, welding spots to be finished with cold galvanising on site. Frames to be bolted to walls with M6 expansion bolts at 200mm centres. Tenderer's are referred to Engineer's drawing No. STR-005 Rev B, annexed to these bills of quantities.	No	1	
8	Screenex Galvanised or Betafence 358 Doubleskin Zincalu steel mesh or other equally approved laid into 50 x 50 x 5mm angle iron frames, screen mesh to be laid in panels approximate L-shaped size 2274 x 12783mm long and 5797 x 1755mm long. Mesh welded into frame and sandwiched between frame of 40 x 40 x 3mm angle welded to mesh and main frame. Frames exceeding 1800mm in length to have an additional 40 x 40 x 3mm angle T-support placed and welded centrally onto the mesh, welding spots to be finished with cold galvanising on site. Frames to be bolted to walls with M6 expansion bolts at 200mm centres. Tenderer's are referred to Engineer's drawing No. STR-005 Rev B, annexed to these bills of quantities.	No	1	
Carried Forward				R

Bill No. 11
Metalwork

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**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
9	Purpose made flatex 345 or other equally approved hot dipped galvanised internal fixed screens, overall size 930 x 1030mm to steel window, screen to be welded to inside of window with 40 x 40 x 5mm mild steel angle iron, 40 x 5mm mild steel flat bar and two openings at bottom corners in grill to open window. Window Type W04. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	63	
10	Purpose made flatex 345 or other equally approved hot dipped galvanised external hinged screens, overall size 930 x 1030mm to steel window, screen to be fixed with heavy duty hinges, 100 x 75 x 8mm MS angle and cover plate, 40 x 40 x 5mm mild steel angle iron, 40 x 5mm mild steel flat bar welded to angle iron frame. 50 x 50 x 5mm mild steel angle iron, bolted to wall with M6 expansion bolts and 40 x 40 x 40 x 5mm mild steel lug for padlock. Window type W04. Tenderer's are referred to Architect's drawings drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	63	
<u>HOT DIPPED GALVANISED SUNDRY STEELWORK</u>				
<u>Brackets, etc. to roof timber, benches, shelvings, etc.</u>				
11	Double slotted H25 wallband fixed to wall to manufacturer's specifications and including wallband saddle H30 for heavy loading	m	242	
12	250mm straight shelf bracket fixed to underside of timber shelves and slotted wallband	No	530	
<u>GALVANISED MILD STEEL HANDRAILS, BALUSTRADING, ETC.</u>				
<u>Hot dipped galvanised welded and bolted balustrading including bolting with and including approved fixing plate and bolts</u>				
13	1000mm High horizontal balustrading including 50 x 3 CHS steel handrail welded to Pin, Pin welded to 60 x 4.5 CHS stanchions at maximum 1000mm centres including all necessary fittings such as 10mm diameter rods horizontal at maximum 110mm centres, ends, knees, 120 x 75 x 8mm plate with 2M12 bolts bolted to concrete surfaces, etc.	m	423	
Carried Forward				R
Bill No. 11 Metalwork				

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-B SS

**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward					R
14	1000mm High raking balustrading including 50 x 3 CHS steel handrail welded to Pin, Pin welded to 60 x 4.5 CHS stanchions at maximum 1000mm centres including all necessary fittings such as 10mm diameter rods horizontal at maximum 110mm centres, ends, knees, 120 x 75 x 8mm plate with 2M12 bolts bolted to concrete surfaces, etc.	m	63		
15	50mm Diameter raking hot dipped galvanised steel hollow round bar handrail set raking with support brackets at 1200mm centres comprising 12mm diameter x 110mm long hot dipped galvanised steel rod with one end welded to rail other end bent and epoxied into brickwork including to 75mm diameter steel fixing / cover plate.	m	56		
<u>(CPAP WORK GROUP NO. 140 UNLESS OTHERWISE STATED)</u>					
<u>ALUMINIUM WINDOWS, ETC.</u>					
<u>Aluminium windows complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete or steel</u>					
<u>All windows to with AAAMSA performance criteria A2 and able to meet the mechanical performance requirements of SANS 613 for wind loads up to 1500Pa.</u>					
<u>Glazing shall be executed strictly on conformance with glass manufacturer's recommendation and SANS 10137:2011 and SANS 10400 Parts B, N, XA.</u>					
<u>Frames to be installed strictly according to manufacturer's specifications.</u>					
16	Purpose made 'charcoal finish' powder coated aluminium window comprises of one fixed panel and two opening panels, all glazing with 6.38mm laminated safety glass with and including tinting to reduce vision from outside, overall size 1320 x 1200mm high. Window Type W01. Tenderer's are referred to Architect's drawing No.UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	75		
Carried Forward					R

Bill No. 11
Metalwork

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**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
17	Purpose made 'charcoal finish' powder coated aluminium window comprises of one fixed panel and two opening panels, all glazing with 6.38mm laminated safety glass bullet resistant glazing with and including tinting to reduce vision from outside, overall size 1320 x 1200mm high. Window Type W01A. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	2	
18	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass with and including obscure glazing, overall size 660 x 660mm high. Window Type W02. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	6	
19	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass with and including obscure privacy glazing and tinting to reduce vision from outside, overall size 660 x 660mm high. Window Type W02A. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	3	
20	Purpose made 'charcoal finish' powder coated aluminium window comprises of fixed panels, all glazing with bullet proof one way safety glass with tinting to reduce vision from outside, overall size 2016 x 1626mm high. Window Type W03. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	1	
21	Purpose made 'charcoal finish' powder coated aluminium window comprises of fixed panels, all glazing with bullet proof one way safety glass with tinting to reduce vision from outside, overall size 2688 x 1640mm high. Window Type W05. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	1	
22	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass, overall size 910 x 855mm high. Window Type W06. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No	3	
Carried Forward				R
Bill No. 11 Metalwork				

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M.D SS

Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)

Brought Forward		R
23	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass including one way tinting, overall size 1200 x 430mm high. Window Type W07. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No 2
24	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass with and including obscure privacy glazing, overall size 660 x 660mm high. Window Type W08. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No 41
25	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.38mm laminated safety glass with and including obscure privacy glazing, overall size 660 x 660mm high. Window Type W08A. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No 1
26	Purpose made 'charcoal finish' powder coated aluminium window comprises of one opening panel, all glazing with 6.4mm laminated bullet proof one way safety glass with and including tinting to reduce vision from outside, overall size 330 x 1105mm high. Window Type W10. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.	No 2
<u>ALUMINIUM SLIDING DOORS, ETC.</u>		
Carried Forward		R
Bill No. 11 Metalwork		

W.B.SS

Brought Forward

R

Aluminium sliding doors complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete or steel

All doors to with AAAMSA performance criteria A2 and able to meet the mechanical performance requirements of SANS 613 for wind loads up to 1500Pa.

Glazing shall be executed strictly on conformance with glass manufacturer's recommendation and SANS 10137:2011 and SANS 10400 Parts B, N, XA.

Aluminium thermal break frame all to SANS 10400XA regulations.

Frames to be installed strictly according to manufacturer's specifications.

- 27 Purpose made 'charcoal finish' powder coated aluminium sliding door comprises of two fixed panel, one sliding panel and one opening panel with and including "Besam" or equally approved automatic slider. All glazing with bullet resistant safety glass with and including tinting to reduce vision from outside, overall size 3005 x 2140mm high. Door type D09. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.

No

1

- 28 Purpose made 'charcoal finish' powder coated aluminium sliding door comprises of one fixed panel and two sliding panels with and including "Besam" or equally approved automatic slider. All glazing with bullet resistant safety glass with and including tinting to reduce vision from outside, overall size 4330 x 2390mm high. Door type D07. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.

No

2

ALUMINIUM DOOR, ETC.

Carried Forward

R

Bill No. 11
Metalwork

195

Brought Forward

R

2 Hour Fire Rating aluminium doors complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete or steel

All windows to with AAAMSA performance criteria A2 and able to meet the mechanical performance requirements of SANS 613 for wind loads up to 1500Pa.

Glazing shall be executed strictly on conformance with glass manufacturer's recommendation and SANS 10137:2011 and SANS 10400 Parts B, N, XA.

Aluminium thermal break frame all to SANS 10400XA regulations.

Frames to be installed strictly according to manufacturer's specifications.

- 29 Purpose made 'charcoal finish' powder coated 2 hour fire rated aluminium door. Glazing to be bullet resistant safety glass with and including tinting to reduce vision from outside, overall size 1510 x 2110mm high. Door Type D06. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.

No

1

Aluminium doors complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete or steel

All units suitable for coastal conditions, complying with AAAMSA performance criteria A2 and able to meet the mechanical performance requirements of SANS 613 for wind loads up to 1500Pa.

Glazing shall be executed strictly on conformance with glass manufacturer's recommendation and SANS 10137:2011 and SANS 10400 Parts B, N, XA.

Frames to be installed strictly according to manufacturer's specifications.

- 30 Purpose made 'charcoal finish' powder coated aluminium and glass double door. Glazing to be bullet resistant safety glass with and including tinting to reduce vision from outside, overall size 1810 x 2110mm high. Door type D01B. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.

No

2

Carried Forward

R

Bill No. 11
Metalwork

196



**Samora Machel New Police Station
Portion 01 of STAND 8972 (Samora Machel)**

Brought Forward				R
31	Purpose made 'charcoal finish' powder coated aluminium and glass door. Glazing to be bullet resistant safety glass with and including tinting to reduce vision from outside, overall size 1210 x 2063mm high. Door type D04. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.	No	3	
32	Purpose made 'charcoal finish' powder coated aluminium and glass door. All glazing with 6.38mm safety opaque glass overall size 1440 x 2420mm high. Door type D21. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP10, annexed to these bills of quantities.	No	1	
	<u>Aluminium framed shower door, factory glazed with 6mm toughened obscure safety glass, and fix in strict accordance with the manufacturers specifications:</u>			
33	872 x 2200mm High shower door	No	4	
	<u>(CPAP WORK GROUP NO. 136 UNLESS OTHERWISE STATED)</u>			
	<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>			
	<u>1.6mm Double rebated frames suitable for one brick wall</u>			
34	Frame for single door size 910 x 2110mm high including hinges welded to frame. Door Type D01. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.	No	88	
35	Frame for single door size 910 x 2060mm high including hinges welded to frame. Door Type D01A. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.	No	12	
36	Frame for single door size 1010 x 2060mm high including hinges welded to frame. Door Type D02. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.	No	14	
37	Frame for single door size 1010 x 2060mm high including hinges welded to frame. Door Type D02A. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP9, annexed to these bills of quantities.	No	4	
Carried Forward				R

Bill No. 11
Metalwork

197

(Signature)

M.B SS

Portion 01 of STAND 8972 (Samora Machel)

R

MB SS

Brought Forward

R

Windows, doors, etc of rolled sections

- 43 Purpose made steel window, overall size 850 x 950mm high security cell window with two stage barrier installation, as per manufacturers specification, with 30 x 16mm manganese grade SS14/7 or Creusabro 8000 (water laser) steel bar built 150mm into wall and 230 x 1,6mm mild steel lug built into wall with 6.4mm laminated safety glass, internal fixed screens and external hinged screens (internal and external screens, elsewhere measured). Window Type W04. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.

No

63

Windows complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete or steel

All windows to comply with AAAMSA performance criteria A2 and able to meet the mechanical performance requirements of SANS 613 for wind loads up to 1500Pa.

Glazing shall be executed strictly on conformance with glass manufacturer's recommendation and SANS 10137:2011 and SANS 10400 Parts B, N, XA.

Frames to be installed strictly according to manufacturer's specifications.

- 44 Purpose made steel window, overall size 700 x 1000mm high security cell window with two stage barrier installation and 100 x 50 x 2,5mm steel open channel frame with glazing beads, steel mesh with 6.4mm thick laminated glass, provide for window to be tinted to reduce vision from outside. Fitted with 16mm diameter bright mild steel bars at 80mm centres with M8 expansion bolts to fix frame onto wall, including 8mm rivets to secure speech profile at 150mm centres with timber spacers to hold glass in position. Window Type W11. Tenderer's are referred to Architect's drawing No. UKU - A - 1003 - SP8, annexed to these bills of quantities.

No

2

BULLET PROOF GLASS

Carried Forward

R

Bill No. 11
Metalwork

199



M.B SS

Brought Forward

53mm thick ballistic glass with 75mm diameter communication hole at 1600mm high from floor. Window to be installed on top of countertop. Provide for the window to be tinted to reduce vision from the outside.

All to meet AAAMSA certification. Contractor to provide shop drawings for approval and AAAMSA certification. All measurements to be checked on site prior to manufacture.

- 45 Bullet proof glass 890 x 2900mm high
- 46 Bullet proof glass 690 x 2900mm high
- 47 Bullet proof glass 1930 x 2900mm high
- 48 Bullet proof glass 3338 x 2900mm high

No 3
No 1
No 1
No 1

GALVANISED STEEL BURGLAR BARS

Galvanised mild steel burglar bars comprises of 12mm vertical round bars welded on 40 x 5mm flat bar frame at 80mm centres. Frames to be bolted to walls with M6 expansion bolts at 500mm centres. All visible bolts must be tack welded.

- 49 Burglar bar size 3655 x 3300mm high including opening for a single gate, gate type G03 (gate elsewhere measured).
- 50 Burglar bar size 2000 x 3300mm high including opening for a single gate, gate type G03 (gate elsewhere measured).
- 51 Burglar bar size 3350 x 3300mm high
- 52 Burglar bar size 700 x 3300mm high

No 1
No 1
No 1
No 1

ROLLER SHUTTER DOORS

Carried Forward

Bill No. 11
Metalwork

200

R

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